DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations making simultaneous observations at 8 a. m. and 8 p. m., daily, seventy-fifth meridian time, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation, the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes)	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches)	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

It is impracticable to make this table sufficiently wide to accommodate on one line the record of accumulated falls that continue at an excessive rate for several hours. In this case *the record is broken at the end of each 50 minutes*, the accumulated amounts being recorded on successive lines until the excessive rate ends.

In cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

The tipping-bucket mechanism is *dismounted* and removed when there is danger of snow or water freezing in the same. Table II records this condition by entering an asterisk (*).

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values except in the case of snowfall.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of high areas: and

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading and (Chart III) the lowest reading reported at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart IV.—Temperature departures. This chart presents the departures of the monthly mean temperatures from the monthly normals. The normals used in computing the departures were computed for a period of 33 years (1873 to 1905) and are published in Weather Bureau Bulletin "R," Washington, 1908. Stations whose records were too short to justify the preparation of normals in 1908 have been provided with normals as adequate records became available and all have been reduced to the 33-year interval 1873–1905. The shaded portions of the chart indicate areas of positive departures and unshaded portions indicate areas of negative departures. Generalized lines connect places having approximately equal departures of like sign. This chart of monthly temperature departures in the United States was first published in the MONTHLY WEATHER REVIEW for July, 1909.

Chart V.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading, and over sections of the country where stations are too widely separated or the topography is too diversified to warrant reasonable accuracy in shading, the actual depths are given for a limited number of representative stations. Amounts less than 0.005 inch are indicated by the letter T, and no precipitation by 0.

Chart VI.—Percentage of clear sky between sunrise and sunset. The average cloudiness at each Weather Bureau station is determined by numerous personal observations between sunrise and sunset. The difference between the observed cloudiness and 100 is assumed to represent the percentage of clear sky, and the values thus obtained are the basis of this chart. The chart does not relate to the nighttime.

Chart VII.—Isobars and isotherms at sea level and prevailing wind directions. The pressures have been reduced to sea level and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13–16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the 24 hours by the application of a suitable correction to the mean of the 8 a. m. and 8 p. m. readings at stations taking two observations daily, and to the 8 a. m. or the 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, volume 2, Table 27, pages 140–164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of volume 2 of the annual report just mentioned. The correction t_0–t, or temperature on the sea-level plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The prevailing wind directions are determined from hourly observations at the great majority of the stations; a few stations having no self-recording wind-direction apparatus determine the prevailing direction from the daily or twice-daily observations only.

Chart VIII.—Total snowfall. This is based on the reports from regular and cooperative observers and shows the depth in inches and tenths of the snowfall during the month. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given. Chart VIII is published only when the general snow cover is sufficiently extensive to justify its preparation.

TABLE I.—*Climatological data for United States Weather Bureau stations, June, 1915.*

Districts and stations.	Elevation of instruments. Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Pressure. Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Temperature of the air. Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation. Total.	Departure from normal.	Days with 0.01 or more.	Wind. Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F	°F	°F		°F	°F		°F	°F	°F	°F		In.	In.		Miles								0-10		
New England.							61.6	− 2.0										77	1.94	− 1.2										5.9		
Eastport	76	67	85	29.94	30.02	+0.09	53.2	− 1.2	72	1	61	37	3	46	26	49	45	79	3.45	+ 0.2	16	5,715	s.	40	ne.	2	5	7	18	7.3	.....	.....
Greenville	1,070	6	.....	28.86	30.02	.....	58.8	.....	81	5	71	33	3	46	45	.....	.....	.....	2.00	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portland, Me.	103	82	117	29.92	30.04	+ .09	59.2	− 3.4	86	29	68	38	3	51	32	54	49	71	1.72	− 1.6	13	5,483	e.	34	ne.	2	8	12	10	5.8	.....	.....
Concord	288	70	79	29.72	30.03	+ .07	62.0	− 2.4	87	14	74	32	3	50	41	.....	.....	.....	1.37	− 2.0	10	3,488	n.	21	n.	23	10	12	8	5.0	.....	.....
Burlington	404	11	48	29.58	30.01	+ .05	62.6	− 1.2	84	5	74	42	3	52	34	.....	.....	.....	2.18	− 1.1	7	6,589	s.	43	s.	19	8	15	7	5.4	.....	.....
Northfield	876	12	60	29.09	30.03	+ .07	58.4	− 4.3	81	5	72	31	3	45	42	55	51	73	3.16	− 0.1	9	4,988	s.	33	s.	19	6	12	12	6.2	.....	.....
Boston	125	115	188	29.89	30.02	+ .06	63.9	− 1.9	87	29	71	44	3	56	25	58	54	74	1.39	− 1.6	7	6,314	e.	30	e.	2	5	19	6	5.4	.....	.....
Nantucket	12	14	90	30.00	30.01	+ .03	61.0	− 0.3	77	29	68	45	2	55	19	57	55	87	1.31	− 1.1	7	10,018	sw.	41	ne.	3	10	14	6	5.3	.....	.....
Block Island	26	11	46	29.98	30.01	+ .04	61.1	− 0.5	75	29	67	47	2	55	18	58	57	90	1.00	− 1.9	6	10,369	sw.	41	e.	2	9	6	15	6.5	.....	.....
Narragansett Pier	.....	9	.....	.....	.....	.....	61.9	− 2.3	83	12	70	45	3	54	26	.....	.....	.....	2.03	.....	8	.....	sw.	.....	.....	.....	14	10	6	.....	.....	.....
Providence	160	215	251	29.84	30.01	+ .04	64.1	− 4.2	85	29	74	42	2	55	26	58	54	72	1.29	− 1.8	10	7,863	nw.	37	w.	12	7	17	6	5.7	.....	.....
Hartford	159	122	140	29.84	30.01	+ .04	66.0	− 1.1	88	14	76	43	3	56	31	58	53	69	1.51	− 1.6	13	5,227	s.	30	sw.	11	6	12	12	6.2	.....	.....
New Haven	106	117	155	29.90	30.01	+ .04	66.0	− 0.9	87	14	75	45	3	57	29	60	56	74	2.94	− 0.2	15	6,377	n.	27	n.	6	9	11	10	5.9	.....	.....
Middle Atlantic States.							68.1	− 2.1										73	3.96	+ 0.3										5.3		
Albany	97	102	115	29.90	30.00	+ .03	66.2	− 1.7	85	14	77	43	3	56	36	58	52	62	2.85	− 0.9	9	5,171	s.	36	nw.	27	12	13	5	4.5	.....	.....
Binghamton	871	10	69	29.10	30.02	+ .05	64.6	− 1.6	88	18	76	43	9	53	38	.....	.....	.....	5.37	+ 1.8	10	3,385	nw.	24	s.	19	8	16	6	5.2	.....	.....
New York	314	414	454	29.68	30.01	+ .03	66.6	− 1.9	89	14	74	46	3	59	27	59	55	71	3.66	+ 0.4	12	9,621	ne.	60	e.	27	8	7	15	6.3	.....	.....
Harrisburg	374	94	104	29.62	30.02	+ .03	68.4	− 1.9	88	14	78	46	3	59	28	60	55	65	3.51	0.0	10	4,528	s.	33	w.	11	10	12	8	5.3	.....	.....
Philadelphia	117	123	190	29.90	30.02	+ .04	69.6	− 1.6	89	15	78	48	3	61	22	63	58	71	3.45	+ 0.2	8	7,213	ne.	31	ne.	27	8	14	8	5.5	.....	.....
Reading	325	81	98	29.67	30.01	.....	68.4	.....	89	15	78	47	3	59	29	61	56	68	2.84	− 0.8	10	4,639	se.	38	sw.	15	6	10	14	6.3	.....	.....
Scranton	805	111	119	29.18	30.02	+ .04	65.8	− 1.4	86	15	76	45	3	56	32	58	53	66	3.27	− 0.3	10	4,464	n.	32	sw.	19	6	12	12	5.9	.....	.....
Atlantic City	52	37	48	29.96	30.02	+ .04	64.6	− 2.2	80	14	70	51	1	59	23	61	58	83	2.40	− 0.6	13	6,546	s.	32	ne.	3	9	8	13	6.2	.....	.....
Cape May	18	13	49	30.02	30.04	+ .06	65.6	− 2.1	85	14	72	50	1	59	23	.....	.....	.....	3.84	+ 0.8	12	6,091	s.	28	ne.	2	13	10	7	4.8	.....	.....
Sandy Hook	22	10	57	29.99	30.01	.....	65.6	.....	85	12	72	48	3	59	23	62	61	90	3.62	.....	13	9,568	s.	56	n.	27	8	10	12	5.9	.....	.....
Trenton	190	159	183	29.80	30.00	.....	67.8	.....	89	15	77	46	3	59	26	61	57	72	2.07	− 1.4	11	7,645	ne.	37	ne.	3	6	10	14	6.4	.....	.....
Baltimore	123	100	113	29.88	30.01	+ .02	70.6	− 2.4	90	15	79	48	3	62	24	63	59	70	6.23	+ 2.4	11	5,083	se.	26	n.	13	9	15	6	5.3	.....	.....
Washington	112	62	85	29.88	30.00	.00	70.6	− 2.1	92	15	80	49	1	61	30	63	59	70	6.58	+ 2.4	14	4,468	s.	34	nw.	15	11	12	7	5.0	.....	.....
Lynchburg	681	153	188	29.26	30.00	− .01	71.6	− 1.9	93	13	82	49	1	61	33	65	62	75	4.16	+ 0.3	8	4,550	ne.	27	nw.	15	12	10	8	5.0	.....	.....
Norfolk	91	170	205	29.91	30.00	.00	71.3	− 3.1	91	13	78	55	3	64	24	65	62	76	6.52	+ 2.2	13	9,200	n.	55	n.	2	14	7	9	5.0	.....	.....
Richmond	144	11	52	29.86	30.01	.00	72.0	− 3.1	92	14	81	52	1	63	31	65	61	74	3.77	+ 0.2	8	5,358	ne.	23	nw.	23	12	12	6	4.6	.....	.....
Wytheville	2,293	40	47	27.68	30.00	− .01	66.4	− 2.3	85	13	77	43	24	56	34	60	57	77	2.87	− 1.2	13	2,837	w.	22	w.	21	18	8	4	3.2	.....	.....
South Atlantic States.							75.1	− 1.0										76	3.99	− 1.0										4.8		
Asheville	2,255	70	84	27.71	30.01	.00	67.6	− 1.1	87	11	77	49	10	58	33	62	59	80	4.74	+ 0.4	17	4,532	nw.	28	w.	15	10	13	7	5.2	.....	.....
Charlotte	773	153	161	29.18	30.00	− .01	73.1	− 2.4	91	14	82	52	2	64	24	65	61	72	5.45	+ 1.0	9	6,061	ne.	39	w.	15	7	13	10	5.8	.....	.....
Hatteras	11	12	50	29.97	29.98	− .03	71.6	− 2.8	84	22	76	57	6	67	14	68	66	83	4.62	+ 0.3	10	10,205	sw.	55	n.	3	12	7	11	5.6	.....	.....
Manteo	12	4	46	.....	.....	.....	70.8	.....	90	15	78	54	4	63	.....	.....	.....	.....	5.04	+ 0.7	5	.....	sw.	.....	.....	.....	18	5	7	.....	.....	.....
Raleigh	376	103	110	29.60	29.99	− .02	73.2	− 1.9	93	14	82	54	4	64	26	65	61	70	3.25	− 1.5	9	5,020	ne.	25	w.	30	15	9	6	4.6	.....	.....
Wilmington	78	81	91	29.92	30.00	− .01	75.1	− 0.4	94	21	83	57	4	67	24	69	66	78	2.28	− 3.3	11	5,161	sw.	28	ne.	21	9	15	6	5.0	.....	.....
Charleston	48	11	92	29.94	29.99	− .02	78.0	− 0.5	93	20	85	60	4	72	20	71	68	74	4.52	− 0.9	7	6,811	s.	29	e.	29	19	6	5	3.7	.....	.....
Columbia, S. C.	351	41	57	29.63	30.00	− .01	76.2	− 2.0	97	22	86	56	4	66	26	68	64	73	3.74	− 0.4	11	3,966	ne.	28	se.	11	11	14	5	4.2	.....	.....
Augusta	180	89	97	29.81	30.00	− .01	77.5	− 0.6	98	21	87	59	2	68	26	69	65	72	4.25	− 0.3	11	3,683	ne.	29	nw.	15	12	12	6	4.8	.....	.....
Savannah	65	150	194	29.92	29.99	− .02	79.0	+ 0.8	97	22	88	64	6	70	25	73	70	80	4.49	− 1.5	11	6,697	s.	32	s.	15	17	7	6	4.2	.....	.....
Jacksonville	43	200	245	29.94	29.99	− .02	79.8	+ 0.8	98	22	88	67	5	72	24	72	70	78	1.55	− 4.0	6	7,594	se.	40	w.	28	10	15	5	5.1	.....	.....
Florida Peninsula.							81.2	+ 0.8										76	6.50	− 0.3										5.0		
Key West	22	10	64	29.93	29.95	− .04	82.6	+ 0.4	91	28	88	72	16	77	13	76	73	74	3.05	− 1.2	10	5,838	e.	29	w.	1	13	11	6	4.8	.....	.....
Miami	25	71	79	29.94	29.98	.....	79.4	− 1.0	89	23	85	68	7	74	15	74	72	78	12.53	+ 4.6	11	6,134	e.	40	e.	17	10	7	13	5.8	.....	.....
Sand Key	23	39	72	29.91	29.94	− .05	81.5	.....	90	26	84	73	1	79	11	77	75	80	3.07	.....	9	7,313	e.	44	e.	15	14	10	6	4.5	.....	.....
Tampa	35	79	96	29.94	29.97	− .04	81.6	+ 2.9	93	14	89	69	6	74	20	73	71	73	3.93	− 4.4	8	4,755	ne.	32	nw.	10	9	17	4	5.1	.....	.....
East Gulf States.							79.4	+ 1.3										72	4.48	− 0.1										4.3		
Atlanta	1,174	190	216	28.80	30.01	.00	75.3	− 0.3	93	20	85	57	1	66	24	67	63	72	3.82	− 0.1	11	6,141	nw.	37	se.	16	11	8	11	5.2	.....	.....
Macon	370	78	87	29.59	29.98	− .03	79.2	+ 2.1	98	21	89	61	10	69	31	70	65	66	1.87	− 1.7	9	3,523	nw.	27	n.	16	13	10	7	4.4	.....	.....
Thomasville	273	8	57	29.68	29.97	− .03	81.1	+ 1.6	104	22	93	63	10	69	31	72	69	76	4.15	− 0.6	7	2,904	nw.	32	sw.	23	15	8	7	4.2	.....	.....
Pensacola	56	140	182	29.92	29.98	− .01	81.2	+ 1.2	97	22	88	65	25	74	21	74	71	74	5.34	+ 0.5	9	7,302	sw.	54	nw.	25	13	11	6	4.6	.....	.....
Anniston	741	9	57	29.23	30.01	+ .01	76.4	+ 1.4	96	20	87	54	24	65	35	.....	.....	.....	1.66	− 2.2	12	3,000	se.	28	sw.	11	13	13	4	3.8	.....	.....
Birmingham	700	11	48	29.25	30.00	+ .01	77.4	− 0.8	94	21	87	57	9	68	27	68	64	69	4.80	+ 0.9	11	3,588	s.	34	nw.	22	8	11	11	5.2	.....	.....
Mobile	57	125	161	29.92	29.98	− .01	81.6	+ 2.5	99	22	90	66	1	73	24	73	70	73	7.41	+ 1.5	11	5,884	sw.	51	n.	28	17	10	3	3.8	.....	.....
Montgomery	223	100	112	29.74	29.98	− .02	80.4	+ 1.3	100	22	91	62	10	70	31	70	66	67	2.33	− 1.9	8	3,733	se.	33	sw.	11	16	10	4	3.5	.....	.....
Meridian	375	85	93	29.59	29.98	.00	78.4	+ 1.1	100	22	89	60	10	68	32	71	68	73	5.96	+ 1.3	10	2,944	w.	40	nw.	22	16	4	10	4.5	.....	.....
Vicksburg	247	65	74	29.72	29.99	+ .02	79.0	+ 0.5	96	22	88	64	2	70	27	72	69	77	6.31	+ 1.8	10	3,979	sw.	34	nw.	22	14	14	2	3.9	.....	.....
New Orleans	51	76	84	29.92	29.97	− .01	83.8	+ 4.2	102	22	92	67	2	75	24	75	71	71	5.61	− 0.6	8	3,751	sw.	23	se.	14	14	12	4	3.9	.....	.....
West Gulf States.							80.1	+ 1.1										74	2.95	− 0.8										4.3		
Shreveport	249	77	93	29.69	29.96	.00	80.7	+ 1.1	99	22	90	66	9	71	26	72	69	74	3.10	− 0.5	7	5,015	s.	31	n.	27	14	10	6	4.5	.....	.....
Bentonville	1,303	11	44	28.58	29.93	− .01	71.4	− 2.7	91	20	80	52	8	62	28	.....	.....	.....	8.61	+ 4.0	13	3,335	s.	21	s.	22	6	15	9	6.2	.....	.....
Fort Smith	457	79	94	29.45	29.92	− .02	76.0	− 0.8	96	20	85	58	8	67	27	69	66	72	5.20	+ 1.2	14	4,900	e.	59	nw.	22	10	9	11	5.2	.....	.....
Little Rock	357	139	147	29.58	29.95	− .01	76.2	− 1.0	98	21	85	60	9	68	25	70	67	77	3.72	− 0.4	9	5,597	s.	62	nw.	22	11	11	8	5.1	.....	.....
Brownsville	57	3	40	.....	.....	.....	84.4	.....	97	22	93	68	1	75	22	.....	.....	.....	T.	.....	0	.....	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corpus Christi	20	69	77	29.91	29.93	+ .02	82.4	+ 1.8	91	30	87	68	1	78	18	77	75	83	T.	− 2.7	0	12,177	se.	35	se.	28	15	14	1	3.9	.....	.....
Dallas	512	109	117	29.38	29.92	.....	80.3	.....	99	21	90	59	1	71	26	.....	.....	.....	6.45	.....	8	7,866	se.	53	s.	13	12	13	5	4.7	.....	.....
Fort Worth	670	106	114	29.19	29.89	− .03	80.3	+ 0.2	100	28	90	61	2	70	27	70	66	67	6.88	+ 3.9	8	8,212	s.	52	se.	14	10	10	10	5.0	.....	.....
Galveston	54	106	114	29.91	29.97	+ .02	82.6	+ 1.7	88	23	86	71	1	79	12	76	74	77	0.08	− 4.7	1	8,411	s.	25	s.	15	27	3	0	2.1	.....	.....
Houston	138	111	121	29.81	29.95	.....	83.7	+ 2.7	98	23	94	66	1	74	25	.....	.....	.....	0.39	.....	2	5,874	s.	25	se.	25	15	15	0	3.1	.....	.....
Palestine	510	64	72	29.40	29.92	− .02	81.3	+ 2.9	95	22	90	64	2	72	24	74	72	79	1.52	− 2.5	2	5,293	s.	20	n.	15	18	8	4	3.8	.....	.....
San Antonio	701	109	132	29.18	29.89	− .01	83.8	+ 3.4	101	29	94	62	1	73	28	73	68	66	0.03	− 3.1	1	6,901	sw.	26	s.	26	13	17	0	3.8	.....	.....
Taylor	582	55	63	29.35	29.96	+ .04	82.6	+ 2.6	99	29	93	60	1	72	26	.....	.....	.....	0.32	− 3.2	3	8,315	s.	27	s.	19	13	16	1	4.0	.....	.....

TABLE I.—*Climatological data for United States Weather Bureau stations, June, 1915*—Continued.

Districts and stations.	Elevation of instruments. Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Pressure. Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Temperature of the air. Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation. Total.	Departure from normal.	Days with 0.01 or more.	Wind. Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F	°F	°F		°F	°F		°F	°F	°F	°F		In.	In.		Miles								0-10		
Ohio Valley and Tennessee.							70.9	— 2.3										72	3.72	— 0.5										5.7		
Chattanooga	762	189	213	29.21	30.01	+0.01	74.6	— 0.8	94	20	84	56	9	66	26	66	63	71	2.74	— 1.6	10	4,617	s.	64	s.	14	7	15	8	5.4	....	....
Knoxville	996	93	100	28.96	30.00	.00	72.6	— 0.8	89	20	82	54	24	63	28	66	63	75	6.34	+ 2.1	16	2,729	ne.	27	nw.	21	3	11	16	6.9	....	....
Memphis	399	76	97	29.57	29.99	+ .02	76.6	— 1.1	92	21	85	61	8	69	21	69	65	71	1.72	— 2.6	8	5,120	sw.	42	nw.	11	11	12	7	5.0	....	....
Nashville	546	168	191	29.42	30.00	+ .01	74.6	— 1.7	93	20	84	52	9	65	28	67	63	72	1.42	— 3.0	12	5,253	w.	46	nw.	13	4	16	10	5.9	....	....
Lexington	989	75	102	28.92	29.97	— .03	70.2	— 3.0	86	26	79	51	9	61	26	....	....	....	3.20	— 0.8	13	5,652	s.	36	w.	13	10	11	9	5.2	....	....
Louisville	525	219	255	29.41	29.99	+ .01	72.6	— 2.4	88	26	82	54	8	64	26	66	64	77	3.11	— 1.1	12	6,226	nw.	56	nw.	20	5	13	12	6.8	....	....
Evansville	431	72	82	29.50	29.96	— .01	73.2	— 2.1	91	6	82	52	8	65	25	67	64	76	3.69	— 0.5	12	3,935	nw.	49	n.	21	4	15	11	6.4	....	....
Indianapolis	822	154	164	29.11	29.98	+ .01	69.5	— 2.9	87	28	79	48	10	60	27	62	58	69	2.91	— 1.4	11	5,954	sw.	42	sw.	13	8	14	8	5.7	....	....
Terre Haute	575	96	129	29.34	29.95	.....	70.5	.....	88	6	80	49	8	61	28	64	60	71	2.22	.....	10	5,767	nw.	45	w.	13	3	20	7	6.2	....	....
Cincinnati	628	11	51	29.31	29.98	— .01	69.3	— 4.4	87	13	79	48	10	60	28	63	59	73	4.47	+ 0.5	11	3,642	ne.	37	nw.	13	9	11	10	5.7	....	....
Columbus	824	173	222	29.13	30.00	+ .01	68.0	— 3.0	87	13	77	48	10	59	31	61	58	73	5.06	+ 1.6	13	6,545	se.	52	nw.	13	12	12	6	4.4	....	....
Dayton	899	181	216	29.02	29.96	.....	68.6	— 3.6	88	13	78	48	10	59	28	62	58	73	4.35	+ 0.4	12	5,653	nw.	46	w.	13	11	13	6	4.7	....	....
Pittsburgh	842	353	410	29.11	30.00	+ .01	67.1	— 4.0	87	18	76	44	24	58	28	59	54	63	5.36	+ 1.5	12	7,180	nw.	43	nw.	13	9	8	13	5.5	....	....
Elkins	1,940	41	50	28.00	30.01	+ .01	65.6	— 1.0	89	13	78	37	24	54	40	58	55	74	2.45	— 2.6	13	2,563	w.	22	w.	11	5	17	8	6.1	....	....
Parkersburg	638	77	84	29.36	30.02	+ .02	69.6	— 1.9	89	13	80	47	24	60	29	63	59	75	4.84	+ 0.2	11	3,256	se.	40	nw.	13	11	10	9	5.2	....	....
Lower Lake Region.							63.7	— 3.3										70	2.74	— 0.8										4.8		
Buffalo	767	247	280	29.18	30.00	+ .03	64.0	— 1.1	90	18	73	46	24	55	35	57	51	66	1.72	— 1.4	11	9,498	sw.	78	sw.	13	12	11	7	5.0	....	....
Canton	448	10	61	29.54	30.00	.....	63.0	— 2.8	87	7	75	43	9	52	40	....	....	....	3.67	+ 0.2	13	6,086	w.	41	sw.	19	20	6	4	3.5	....	....
Oswego	335	76	91	29.64	30.00	+ .03	60.4	— 3.4	84	7	70	44	10	51	32	55	51	71	2.58	— 0.8	10	5,757	w.	30	w.	15	14	8	8	4.5	....	....
Rochester	523	97	113	29.45	30.02	+ .05	64.0	— 2.1	89	13	74	46	24	54	33	56	49	60	2.29	— 0.8	10	5,322	w.	36	w.	19	14	8	8	4.8	....	....
Syracuse	597	97	113	29.39	30.03	+ .06	63.2	— 3.7	84	18	74	45	4	53	33	56	50	63	3.47	— 0.4	9	6,924	s.	40	sw.	15	13	7	10	4.8	....	....
Erie	714	130	166	29.24	30.00	+ .02	64.2	— 2.8	88	18	72	47	9	56	28	58	54	71	2.57	— 1.2	11	8,639	se.	53	w.	13	10	13	7	5.0	....	....
Cleveland	762	190	201	29.19	30.00	+ .02	63.9	— 4.0	87	13	71	44	24	57	27	58	54	72	2.03	— 1.6	12	8,580	se.	47	s.	18	11	12	7	4.7	....	....
Sandusky	629	62	103	29.32	30.00	+ .02	64.9	— 3.8	88	13	72	48	24	58	27	59	55	73	3.48	— 0.3	9	7,677	e.	40	w.	13	9	13	8	5.0	....	....
Toledo	628	208	243	29.32	30.00	+ .03	64.8	— 4.6	85	13	73	48	8	56	27	59	55	74	1.85	— 1.5	10	9,286	ne.	48	nw.	7	14	11	5	4.1	....	....
Fort Wayne	856	113	124	29.09	30.00	.....	64.8	— 3.7	84	6	74	43	10	55	29	59	56	74	2.77	.....	12	5.802	ne.	36	sw.	18	6	12	12	6.1	....	....
Detroit	730	218	245	29.22	30.01	+ .04	63.1	— 4.7	86	13	72	46	23	54	31	57	52	71	3.71	— 0.2	15	8,166	e.	48	w.	7	7	18	5	5.0	....	....
Upper Lake Region.							58.4	— 4.2										74	3.83	+ 0.5										5.8		
Alpena	609	13	92	29.34	30.01	+ .05	56.0	— 4.3	85	13	64	39	10	48	34	53	49	75	5.24	+ 1.7	13	7,896	se.	48	se.	18	6	18	6	5.5	....	....
Escanaba	612	54	60	29.32	29.98	+ .04	56.8	— 3.8	76	2	64	38	23	49	25	52	48	72	3.43	— 0.2	12	6,598	s.	40	ne.	18	9	15	6	5.2	....	....
Grand Haven	632	54	92	29.31	29.98	+ .02	60.3	— 4.4	83	28	69	38	10	51	32	55	51	73	2.84	+ 0.3	11	6,790	w.	36	sw.	12	14	8	8	4.6	....	....
Grand Rapids	707	70	87	29.23	30.00	+ .03	63.4	— 4.7	88	6	74	41	10	53	28	57	52	68	1.80	— 0.7	12	4,395	se.	28	w.	12	3	16	11	6.6	....	....
Houghton	684	62	72	29.23	29.96	+ .02	54.6	— 4.8	82	27	64	37	8	45	33	....	....	....	4.37	+ 0.9	11	6,316	se.	31	w.	16	9	9	12	5.6	....	....
Lansing	878	11	62	29.05	29.99	.....	61.0	— 6.4	84	6	73	39	10	49	34	57	53	76	3.96	+ 0.6	15	3,767	se.	20	w.	13	7	13	10	6.0	....	....
Ludington	637	60	66	29.29	29.98	.....	57.7	.....	79	27	67	38	10	49	26	54	50	76	2.54	.....	11	6,153	e.	35	s.	18	9	11	10	5.8	....	....
Marquette	734	77	111	29.20	30.01	+ .07	55.2	— 3.3	87	27	64	39	23	47	32	50	46	74	5.13	+ 1.6	13	6,351	e.	40	sw.	13	4	11	15	7.1	....	....
Port Huron	638	70	120	29.31	30.00	+ .03	59.7	— 4.1	84	13	69	43	10	51	31	54	51	74	4.10	+ 0.9	14	7,242	ne.	36	nw.	22	10	18	2	4.7	....	....
Saginaw	641	48	82	29.31	30.00	.....	61.5	.....	86	6	72	40	23	51	31	56	53	74	4.75	+ 2.1	14	6,197	e.	44	s.	18	8	11	11	6.0	....	....
Sault Ste. Marie	614	11	61	29.32	30.02	+ .06	55.5	— 2.1	82	28	66	37	10	45	33	50	46	74	3.75	+ 1.0	16	6,127	se.	42	nw.	22	5	9	16	6.8	....	....
Chicago	823	140	310	29.11	29.99	+ .03	63.8	— 2.5	88	6	71	46	9	57	28	57	53	72	3.60	— 0.1	12	7,794	n.	38	s.	18	9	12	9	5.3	....	....
Green Bay	617	109	144	29.31	29.96	+ .01	60.1	— 5.0	83	29	69	40	9	51	24	56	52	75	2.54	— 1.0	12	7,550	se.	37	se.	12	5	18	7	6.3	....	....
Milwaukee	681	119	133	29.25	29.98	+ .03	59.3	— 4.2	84	6	67	42	9	51	28	54	50	74	3.11	— 0.6	10	6,163	ne.	32	se.	18	3	20	7	6.0	....	....
Duluth	1,133	11	47	28.76	29.98	+ .06	53.2	— 4.5	78	28	62	34	9	44	29	50	47	79	4.96	+ 0.4	16	8,423	ne.	47	w.	28	7	15	8	5.4	....	....
North Dakota.							57.6	— 6.0										71	5.25	+ 1.6										5.6		
Moorhead	940	8	57	28.94	29.95	+ .05	59.2	— 5.1	82	26	70	32	9	48	31	55	52	77	9.13	+ 5.0	21	6,023	se.	45	nw.	26	12	12	6	4.3	....	....
Bismarck	1,674	8	57	28.19	29.96	+ .09	58.2	— 6.0	86	25	69	33	8	47	37	52	47	71	5.70	+ 2.2	12	7,740	nw.	34	w.	26	9	12	9	5.6	....	....
Devils Lake	1,482	11	44	28.35	29.92	+ .04	55.4	— 7.2	79	3	66	33	7	45	34	51	46	72	4.53	+ 1.0	14	7,600	se.	40	ne.	12	2	15	13	6.7	....	....
Williston	1,872	40	47	27.94	29.91	+ .05	57.6	— 5.9	85	24	69	30	16	46	37	50	43	63	1.64	— 1.9	10	6,868	nw.	41	nw.	20	8	13	9	5.9	....	....
Upper Mississippi Valley.							67.0	— 4.0										74	4.60	+ 0.2										5.8		
Minneapolis	918	10	208	28.97	29.94	.....	62.5	.....	85	27	71	39	9	54	27	....	....	....	4.91	+ 0.9	15	8,361	w.	40	se.	12	4	13	13	6.9	....	....
St. Paul	837	201	236	29.03	29.94	+ .02	62.4	— 5.0	85	27	71	38	9	54	25	....	....	....	3.58	— 0.8	14	8,668	se.	54	se.	12	3	19	8	6.2	....	....
La Crosse	714	11	48	29.19	29.96	+ .03	63.1	— 5.1	86	27	73	41	9	53	32	....	....	....	3.01	— 0.5	11	3,385	nw.	18	nw.	8	7	9	14	6.4	....	....
Madison	974	70	78	28.95	29.98	+ .04	62.0	— 5.3	84	27	71	40	9	52	28	56	52	72	1.75	— 2.4	11	5,861	se.	27	sw.	16	2	15	13	6.9	....	....
Charles City	1,015	10	49	28.90	29.96	+ .05	62.4	— 6.4	86	27	73	37	9	52	31	59	57	80	3.74	— 1.4	16	4,412	se.	27	se.	12	10	14	6	5.1	....	....
Davenport	606	71	79	29.30	29.96	+ .02	66.6	— 4.3	88	27	77	43	9	57	30	61	57	75	3.47	— 0.6	10	5,194	e.	29	w.	12	9	13	8	5.4	....	....
Des Moines	861	84	97	29.05	29.94	+ .02	67.0	— 3.4	86	12	76	45	9	58	26	61	56	70	3.60	— 1.4	12	5,104	se.	30	sw.	12	8	11	11	5.9	....	....
Dubuque	698	81	96	29.24	29.98	+ .05	64.7	— 4.9	86	27	74	44	9	55	30	58	54	70	3.06	— 1.5	10	4,421	nw.	22	n.	12	5	14	11	6.2	....	....
Keokuk	614	64	78	29.30	29.96	+ .02	69.0	— 3.5	89	12	78	44	9	60	30	63	60	77	9.99	+ 5.6	14	4,671	ne.	30	se.	18	9	18	3	4.6	....	....
Cairo	356	87	93	29.57	29.94	— .03	74.4	— 0.8	91	20	83	56	8	66	24	68	65	74	2.42	— 1.9	9	4,617	se.	35	sw.	5	8	12	10	5.8	....	....
Peoria	609	11	45	29.31	29.98	+ .03	67.8	— 3.1	89	29	79	42	8	56	31	62	59	76	2.08	— 2.2	11	3,972	e.	24	w.	18	7	14	9	5.6	....	....
Springfield, Ill	644	10	91	29.28	29.95	.00	69.6	— 2.7	90	12	80	45	8	60	28	63	59	71	3.22	— 1.1	12	5,434	s.	27	nw.	7	5	15	10	6.2	....	....
Hannibal	534	74	109	29.39	29.96	+ .01	69.4	— 3.9	89	12	78	46	8	60	30	....	....	....	8.93	+ 5.4	15	5,632	sw.	50	se.	18	9	9	12	5.7	....	....
St. Louis	567	265	303	29.35	29.95	.00	72.0	— 3.1	90	12	81	54	8	63	27	67	64	78	9.77	— 5.3	13	7,892	s.	49	nw.	13	11	16	3	4.8	....	....
Missouri Valley.							66.7	— 4.2										74	5.92	+ 1.6										5.6		
Columbia, Mo.	781	11	84	29.12	29.94	— .01	69.6	— 4.9	89	5	79	46	8	61	29	....	....	....	9.11	+ 4.7	18	4,526	se.	31	nw.	29	3	12	15	7.3	....	....
Kansas City	963	161	181	28.93	29.95	+ .03	70.0	— 3.0	87	12	78	52	9	62	26	63	60	75	7.88	+ 3.2	16	7,525	n.	50	nw.	30	4	19	7	5.9	....	....
St. Joseph	967	11	49	28.93	29.94	.....	69.8	.....	89	12	80	48	9	60	28	62	59	75	5.77	.....	13	5,138	se.	47	nw.	29	7	18	5	5.5	....	....
Springfield, Mo	1,324	98	104	28.58	29.96	+ .01	70.3	— 2.0	90	20	78	50	8	62	23	65	62	77	5.81	+ 0.6	16	6,232	se.	40	nw.	13	13	14	3	4.0	....	....
Iola	984	11	50	28.90	29.92	— .01	71.1	— 2.3	88	10	81	48	8	61	28	....	....	....	8.56	+ 3.8	16	4,419	se.	36	n.	10	3	21	6	5.5	....	....
Topeka	983	85	101	.....	.....	.....	69.8	— 3.7	88	10	79	50	1	61	27	....	....	....	9.10	+ 4.3	15	6,232	se.	42	w.	10	6	16	8	6.1	....	....
Lincoln	1,189	11	84	28.68	29.92	+ .02	67.2	— 4.4	86	25	77	44	9	58	27	61	57	75	4.03	— 0.3	13	6,562	se.	40	nw.	30	6	15	9	5.8	....	....
Omaha	1,105	115	121	28.78	29.94	+ .03	67.6	— 4.0	86	26	76	47	9	59	27	61	58	73	2.83	— 2.2	14	5,457	se.	30	nw.	13	5	19	6	5.4	....	....
Valentine	2,598	47	54	27.24	29.93	+ .07	62.0	— 5.1	86	26	73	34	7	51	38	56	51	69	4.52	+ 0.7	18	7,511	s.	54	sw.	27	8	14	8	5.8	....	....
Sioux City	1,135	94	164	28.74	29.94	+ .04	65.0	— 4.4	84	26	74	40	9	56	28	60	57	77	5.65	+ 1.8	11	8,476	se.	50	s.	15	10	14	6	5.0	....	....
Huron	1,306	59	74	28.57	29.96	+ .08	61.4	— 5.2	83	27	72	30	9	51	30	56	53	75	4.50	+ 0.7	15	7,838	se.	48	se.	9	7	20	3	4.8	....	....
Pierre	1,572	70	75	28.29	29.94	+ .07	63.1	— 5.8	86	27	73	39	7	53	33	56	50	66	4.12	+ 1.0	14	7,254	se.	57	n.	27	9	14	7	5.3	....	....
Yankton	1,233	49	57	28.63	29.93	+ .04	63.8	— 5.6	86	26	74	42	7	54	27	....	....	....	4.99	+ 0.7	15	5,618	se.	36	w.	12	5	14	11	6.3	....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, June, 1915*—Continued.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.											Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.						Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.						
	Ft.	Ft.	Ft.	In.	In.	In.	°F	°F	°F		°F	°F		°F	°F	°F	°F			In	In.		Miles								0-10		
Northern Slope.							**56.8**	**− 5.3**												**66**	**3.66**	**+ 1.4**									**5.6**		
Havre	2,505	11	44	27.31	29.92	+0.07	56.8	− 5.6	88	24	67	34	16	46	41	51	47	73	3.35	+ 0.5	16	5,375	nw.	31	sw.	25	9	11	10	5.7	....	....
Helena	4,110	87	114	25.80	29.96	+ .08	55.2	− 5.4	83	24	66	37	13	44	39	46	39	61	5.25	+ 3.1	14	6,767	sw.	54	sw.	25	5	15	10	6.2	T.	....
Kalispell	2,962	11	34	26.92	29.95	+ .06	55.8	− 3.0	84	24	67	39	6	44	36	48	42	68	2.09	+ 0.4	15	2,988	w.	20	nw.	9	7	14	9	5.6	....	....
Miles City	2,371	26	48	27.44	29.97	+ .12	61.6	− 4.4	95	25	73	38	8	50	34	53	47	66	5.84	+ 3.1	17	4,206	s.	24	nw.	15	12	9	9	4.9	....	....
Rapid City	3,259	50	58	26.58	29.95	+ .10	59.1	− 4.7	84	27	69	35	7	49	36	52	46	65	5.95	+ 2.4	18	6,523	n.	40	nw.	12	5	16	9	5.9	....	....
Cheyenne	6,088	84	101	24.02	29.90	+ .06	54.6	− 6.9	78	25	66	29	7	43	36	48	42	66	1.34	− 0.2	10	8,688	s.	52	w.	12	3	18	9	6.6	T.	....
Lander	5,372	60	68	24.64	29.93	+ .08	55.4	− 5.9	86	25	70	34	12	41	38	45	35	54	3.75	+ 2.6	10	4,138	w.	36	n.	15	8	17	5	4.8	T.	....
Sheridan	3,790	10	47	26.09	29.96	.....	55.6	.....	83	25	68	31	7	43	38	50	44	69	4.71	.....	18	4,458	nw.	40	se.	25	10	10	10	5.2	T.	....
Yellowstone Park	6,200	11	48	23.89	29.95	+ .09	49.2	− 6.8	78	24	62	30	13	37	41	41	35	66	2.00	+ 0.4	13	5,288	nw.	40	s.	25	7	13	10	5.9	T.	....
North Platte	2,821	11	51	27.07	29.96	+ .10	63.8	− 4.6	84	15	74	38	7	54	34	57	54	75	3.39	+ 0.1	13	5,290	se.	29	nw.	12	10	13	7	4.8	....	....
Middle Slope.							**68.2**	**− 3.6**												**69**	**4.73**	**+ 1.6**									**5.4**		
Denver	5,291	129	172	24.72	29.89	+ .05	62.2	− 4.2	89	11	75	36	7	49	37	51	43	56	1.70	+ 0.2	10	5,858	sw.	41	nw.	17	8	15	7	5.2	....	....
Pueblo	4,685	80	86	25.26	29.87	+ .04	66.0	− 3.0	95	23	79	34	7	53	45	52	42	50	1.26	− 0.2	7	5,111	se.	42	nw.	17	18	6	6	4.0	....	....
Concordia	1,392	50	58	28.48	29.93	+ .03	68.3	− 4.4	86	28	78	48	1	59	27	62	59	76	9.33	+ 4.4	16	5,088	se.	33	se.	19	2	18	10	6.7	....	....
Dodge	2,509	11	51	27.33	29.88	+ .01	68.8	− 4.3	94	17	80	41	7	58	29	62	59	75	2.96	− 0.4	16	7,918	se.	38	s.	1	10	13	7	5.3	....	....
Wichita	1,358	139	158	28.48	29.89	− .02	70.7	− 3.6	92	19	80	49	7	62	25	65	62	76	5.90	+ 1.2	16	8,854	s.	62	w.	17	4	19	7	5.9	....	....
Oklahoma	1,214	10	47	28.65	29.90	− .01	73.7	− 2.0	90	18	82	52	8	65	27	68	66	80	7.23	+ 4.2	15	9,527	s.	74	n.	24	8	18	4	5.2	....	....
Southern Slope.							**78.0**	**+ 0.8**												**56**	**1.16**	**− 1.5**									**2.9**		
Abilene	1,738	10	52	28.10	29.85	− .03	80.7	+ 2.5	102	19	92	50	1	69	33	69	64	62	2.85	− 0.3	7	9,015	s.	54	sw.	23	17	11	2	3.1	....	....
Amarillo	3,676	10	49	26.22	29.86	+ .01	72.4	+ 0.4	103	20	86	42	7	59	37	61	54	62	1.04	− 2.0	7	8,841	s.	37	n.	6	19	8	3	3.1	....	....
Del Rio	944	64	71	28.89	29.85	.00	84.0	+ 1.9	101	18	94	61	1	74	27	....	....	....	0.63	− 1.8	4	6,194	se.	44	se.	3	19	9	2	2.8	....	....
Roswell	3,566	75	85	26.29	29.81	+ .01	74.9	− 1.4	102	20	91	46	8	59	40	58	45	43	0.14	− 1.9	4	5,949	se.	34	s.	28	20	8	2	2.5	....	....
Southern Plateau.							**73.7**	**− 0.9**												**31**	**0.18**	**− 0.2**									**1.7**		
El Paso	3,762	110	133	26.10	29.74	− .01	81.6	+ 2.0	102	20	95	56	8	68	34	57	35	25	T.	− 0.6	0	8,273	w.	46	ne.	7	21	9	0	1.8	....	....
Santa Fe	7,013	57	62	23.28	29.78	− .03	64.0	− 2.2	86	21	77	38	7	51	31	47	32	34	0.16	− 0.9	4	5,740	sw.	34	sw.	3	18	12	0	3.3	....	....
Flagstaff	6,908	8	57	23.37	29.81	+ .03	56.8	− 2.5	83	30	74	30	5	40	45	....	....	....	0.42	− 0.1	2	.....	w.	38	w.	16	22	7	1	....	T.	....
Phoenix	1,108	76	81	28.63	29.75	+ .01	83.4	− 1.0	106	17	99	58	5	68	40	59	39	26	0.48	+ 0.4	2	3,903	e.	24	w.	3	25	3	2	1.4	....	....
Yuma	141	9	58	29.60	29.74	.00	85.4	+ 0.7	112	30	104	59	14	66	46	65	52	40	0.00	0.0	0	3,609	sw.	19	n.	3	30	0	0	0.3	....	....
Independence	3,910	11	42	25.90	29.80	+ .02	71.0	− 2.4	94	29	87	47	12	55	40	....	....	....	0.00	− 0.1	0	5,351	se.	36	nw.	16	25	5	0	1.5	....	....
Middle Plateau.							**63.2**	**− 2.5**												**36**	**0.54**	**+ 0.1**									**2.6**		
Reno	4,532	74	81	25.48	29.92	+ .06	61.6	+ 0.6	93	30	78	38	12	46	40	46	32	41	0.00	− 0.2	0	5,800	w.	37	w.	10	29	1	0	0.8	....	....
Tonopah	6,090	12	20	24.07	29.88	.....	63.5	.....	87	30	75	37	3	52	28	45	27	30	T.	− 0.4	0	6,733	w.	42	nw.	11	24	4	2	1.8	....	....
Winnemucca	4,344	18	56	25.61	29.96	+ .08	61.0	− 2.3	91	30	78	34	13	44	45	45	31	41	0.05	− 0.6	2	4,408	ne.	29	sw.	10	21	6	3	2.2	....	....
Modena	5,479	10	43	24.59	29.85	+ .03	60.8	− 2.4	90	30	78	32	12	44	43	44	24	32	0.85	+ 0.4	3	7,906	sw.	42	w.	1	20	5	5	2.6	T.	....
Salt Lake City	4,360	147	189	25.58	29.88	+ .03	64.2	− 4.1	92	24	76	42	3	53	30	49	36	39	1.44	+ 0.7	7	5,750	nw.	44	nw.	1	20	6	4	2.9	....	....
Grand Junction	4,602	82	96	25.32	29.84	+ .01	68.4	− 4.2	93	24	82	44	4	54	36	49	30	33	0.92	+ 0.5	6	5,586	e.	45	w.	11	19	7	4	3.0	....	....
Northern Plateau.							**61.6**	**− 3.4**												**48**	**0.71**	**− 0.4**									**4.0**		
Baker	3,471	48	53	26.49	30.06	+ .11	56.2	− 2.4	88	23	69	35	11	43	38	45	36	53	0.45	− 0.8	6	4,877	nw.	23	se.	14	13	16	1	3.9	....	....
Boise	2,739	78	86	27.15	29.99	+ .08	61.8	− 4.2	91	23	75	42	10	49	36	49	36	46	0.48	− 0.4	4	4,462	nw.	24	w.	11	17	7	6	3.7	....	....
Lewiston	757	40	48	29.19	30.00	+ .06	65.4	− 3.7	97	23	79	45	10	52	40	....	....	....	1.44	+ 0.4	5	3,085	e.	19	nw.	16	13	11	6	4.1	....	....
Pocatello	4,477	46	54	25.45	29.91	+ .04	58.4	− 5.8	88	24	72	34	13	45	40	46	34	45	0.57	− 0.4	7	5,410	se.	34	sw.	10	12	16	2	4.1	....	....
Spokane	1,929	101	110	27.96	29.99	+ .05	61.4	− 2.0	89	23	73	44	11	50	36	50	40	51	0.92	− 0.7	6	4,901	sw.	27	sw.	12	13	14	3	4.3	....	....
Walla Walla	1,000	57	65	28.94	30.00	+ .04	66.1	− 2.1	92	30	78	48	11	54	33	53	41	45	0.40	− 0.8	4	3,992	s.	21	w.	16	16	9	5	3.8	....	....
North Pacific Coast Region.							**58.2**	**+ 0.6**												**76**	**0.67**	**− 1.4**									**4.9**		
North Head	211	11	56	29.96	30.19	+ .20	55.4	+ 0.4	70	30	58	48	10	53	13	53	51	86	0.85	− 0.9	10	11,522	nw.	44	se.	24	4	20	6	5.5	....	....
Port Crescent	259	8	53	29.89	30.18	+ .15	52.8	− 0.6	80	30	61	38	21	45	32	....	....	....	0.27	− 1.6	5	3,608	w.	16	w.	6	8	18	4	4.8	....	....
Seattle	125	215	250	30.02	30.14	+ .14	59.8	− 0.3	86	30	67	47	10	52	27	54	50	74	0.40	− 1.3	8	5,601	s.	27	ne.	6	9	10	11	5.7	....	....
Tacoma	213	113	120	29.92	30.14	+ .11	59.6	+ 0.2	84	30	68	45	3	51	28	53	49	72	0.66	− 1.5	6	4,203	sw.	23	sw.	16	9	12	9	5.4	....	....
Tatoosh Island	109	7	57	30.05	30.15	+ .12	55.0	+ 2.0	76	30	59	46	10	51	25	52	51	90	0.28	− 3.9	5	6,829	sw.	30	s.	24	11	8	11	5.2	....	....
Portland, Oreg.	153	68	106	29.97	30.13	+ .09	62.6	+ 1.3	95	30	72	47	3	53	32	55	50	68	1.47	− 0.3	9	4,052	nw.	21	w.	24	15	9	6	4.2	....	....
Roseburg	510	9	57	29.58	30.13	+ .10	62.0	+ 1.1	98	30	75	43	10	49	43	53	47	64	0.71	− 0.4	6	2,743	n.	18	n.	3	11	16	3	3.6	....	....
Middle Pacific Coast Region.							**62.3**	**− 0.3**												**58**	**0.01**	**− 0.4**									**1.7**		
Eureka	62	73	89	30.07	30.14	+ .09	54.0	− 0.6	63	23	58	46	4	50	13	51	49	84	0.05	− 1.0	3	6,308	n.	38	n.	2	17	9	4	4.0	....	....
Mt. Tamalpais	2,375	11	18	27.55	30.00	+ .05	63.6	− 0.5	84	7	71	44	11	56	21	50	37	39	0.00	− 0.4	0	15,300	nw.	88	nw.	10	30	0	0	0.2	....	....
Point Reyes Light	490	7	18	29.45	29.97	.....	51.8	− 1.2	64	4	55	44	26	48	17	....	....	....	0.00	.....	0	22,818	nw.	81	nw.	10	15	7	8	4.0	....	....
Red Bluff	342	50	56	29.58	29.92	+ .04	75.0	− 0.7	101	28	89	49	11	61	35	57	42	36	0.00	− 0.5	0	4,808	nw.	30	n.	3	30	0	0	0.3	....	....
Sacramento	69	106	117	29.86	29.92	+ .03	69.8	+ 0.9	96	29	84	50	25	56	35	57	47	55	0.00	− 0.2	0	7,022	s.	40	nw.	3	30	0	0	0.1	....	....
San Francisco	155	209	213	29.83	30.00	+ .04	58.9	+ 1.9	83	3	66	48	14	52	24	52	48	76	0.00	− 0.2	0	8,776	sw.	35	sw.	9	25	5	0	1.6	....	....
San Jose	141	12	110	29.85	30.00	.....	63.4	− 1.6	89	28	77	43	20	50	36	....	....	....	0.00	− 0.1	0	4,540	nw.	24	nw.	3	27	3	0	1.8	....	....
South Pacific Coast Region.							**66.8**	**+ 0.6**												**66**	**T.**	**− 0.1**									**2.5**		
Fresno	327	89	98	29.55	29.90	+ .05	75.0	− 0.8	102	8	91	51	25	59	37	56	39	36	0.00	− 0.1	0	7,378	nw.	31	nw.	11	28	2	0	0.7	....	....
Los Angeles	338	159	191	29.56	29.92	+ .02	66.7	+ 2.2	85	17	76	55	16	57	29	59	55	74	T.	− 0.1	0	3,596	sw.	16	sw.	11	19	8	3	3.5	....	....
San Diego	87	62	70	29.83	29.92	.00	64.8	+ 1.0	77	17	70	57	12	60	16	60	58	82	T.	0.0	0	4,772	nw.	21	nw.	30	21	6	3	3.7	....	....
San Luis Obispo	201	32	40	29.78	30.00	+ .05	60.6	+ 0.2	84	14	74	43	19	48	38	52	48	72	0.01	− 0.1	1	3,346	nw.	20	w.	24	26	4	0	2.0	....	....
West Indies.																																		
San Juan	82	8	54	29.89	29.97	− .02	80.6	.....	92	23	86	73	14	76	18	....	....	....	6.07	+ 0.2	16	9,474	e.	37	e.	14	15	11	4	4.1	....	....
Panama.																																		
Balboa Heights	116	7	97	29.70	29.82	.....	81.0	.....	92	19	87	74	11	76	18	77	76	90	2.85	− 5.0	18	4,617	nw.	25	s.	5	0	8	22	8.3	....	....
Colon	25	5	71	29.79	29.82	.....	81.2	.....	89	16	86	75	8	77	12	78	77	89	16.01	+ 2.6	25	5,205	se.	27	s.	6	0	9	21	7.9	....	....

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during June, 1915, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Abilene, Tex.	24-25	8:05 p.m.	D.N.a.m.	1.45	8:24 p.m.	9:04 p.m.	0.09	0.12	0.31	0.50	0.72	0.90	1.00	1.12	1.23						
Albany, N. Y.	18	2:34 p.m.	3:03 p.m.	0.38	2:34 p.m.	2:49 p.m.	.00	.22	.24	.37											
Alpena, Mich.	6	5:40 p.m.	7:40 p.m.	2.21	5:45 p.m.	6:10 p.m.	.01	.42	.71	.90	1.29	1.57									
Amarillo, Tex.	25			0.40														0.34			
Anniston, Ala.	27			0.61														.25			
Asheville, N. C.	30	3:15 p.m.	4:50 p.m.	0.54	4:27 p.m.	4:39 p.m.	.15	.16	.33	.38											
Atlanta, Ga.	12	5:50 p.m.	8:40 p.m.	1.79	5:56 p.m.	6:33 p.m.	.01	.17	.55	.89	1.18	1.39	1.52	1.58							
Atlantic City, N. J.	22	5:10 p.m.	6:37 p.m.	0.57	5:20 p.m.	5:30 p.m.	.01	.34	.43												
Augusta, Ga.	15	10:15 p.m.	10:45 p.m.	1.13	10:18 p.m.	10:34 p.m.	.01	.23	.67	1.09	1.12										
Baker, Oreg.	13			0.23														.17			
Baltimore, Md.	13	2:50 p.m.	4:30 p.m.	1.43	2:55 p.m.	3:33 p.m.	.01	.28	.59	.94	1.06	1.11	1.25	1.33	1.38						
Bentonville, Ark.	11	5:18 a.m.	11:00 a.m.	1.68	9:12 a.m.	9:40 a.m.	.69	.15	.36	.51	.65	.79	.85								
	23-24	10:22 p.m.	7:35 a.m.	2.49	3:05 a.m.	3:40 a.m.	.81	.12	.26	.35	.42	.54	.62	.70							
					4:16 a.m.	5:01 a.m.	1.61	.05	.14	.18	.21	.26	.37	.44	.56	0.78					
Binghamton, N. Y.	19	7:20 p.m.	7:55 p.m.	0.83	7:32 p.m.	7:50 p.m.	.04	.05	.23	.57	.79										
Birmingham, Ala.	6	3:38 p.m.	4:13 p.m.	0.70	3:43 p.m.	3:59 p.m.	.02	.13	.48	.64	.67										
	16	1:02 p.m.	2:36 p.m.	0.78	1:28 p.m.	1:58 p.m.	.01	.17	.31	.48	.67	.71	.77								
	28	8:46 p.m.	D.N.p.m.	1.41	8:46 p.m.	9:17 p.m.	.00	.25	.81	.99	1.08	1.16	1.22	1.25							
Bismarck, N. Dak.	15	3:34 p.m.	4:15 p.m.	0.49	3:56 p.m.	4:06 p.m.	.02	.22	.42												
Block Island, R. I.	17	10:30 a.m.	11:00 a.m.	0.67	10:32 a.m.	10:54 a.m.	T.	.22	.34	.50	.63	.67									
Boise, Idaho	18			0.31														.28			
Boston, Mass.	17			0.69														.41			
Buffalo, N. Y.	19			0.44														.39			
Burlington, Vt.	11			1.13														*			
Cairo, Ill.	4	5:38 p.m.	7:30 p.m.	0.68	6:11 p.m.	6:26 p.m.	.06	.22	.38	.55											
Canton, N. Y.	13-14	11:25 p.m.	D.N.a.m.	0.70	11:32 p.m.	11:47 p.m.	.02	.11	.42	.50											
Charles City, Iowa	23-24			1.10														*			
Charleston, S. C.	1-2	7:30 p.m.	D.N.a.m.	1.24	8:41 p.m.	9:29 p.m.	.02	.10	.13	.29	.38	.49	.62	.75	.83	.89	0.94				
Charlotte, N. C.	14	8:38 p.m.	D.N.p.m.	0.97	8:52 p.m.	9:31 p.m.	.05	.20	.35	.39	.46	.57	.66	.72	.80						
Chattanooga, Tenn.	11	1:18 p.m.	2:21 p.m.	0.63	1:28 p.m.	1:43 p.m.	.01	.23	.47	.58											
Cheyenne, Wyo.	5-6			0.34														.16			
Chicago, Ill.	12-13	10:45 p.m.	D.N.a.m.	1.54	11:02 p.m.	11:47 p.m.	.01	.18	.31	.46	.56	.72	.82	.89	.92	.98					
Cincinnati, Ohio	1	12:07 p.m.	D.N.p.m.	0.90	1:15 p.m.	1:29 p.m.	.14	.17	.39	.47											
Cleveland, Ohio	2			0.68														*			
Columbia, Mo.	10	3:34 a.m.	12:10 p.m.	0.83	10:36 a.m.	10:51 a.m.	.01	.35	.70	.76											
	16	2:57 p.m.	6:20 p.m.	1.08	3:37 p.m.	4:12 p.m.	.03	.07	.12	.27	.36	.43	.57	.79							
	27	5:30 p.m.	7:10 p.m.	1.02	6:21 p.m.	6:55 p.m.	.01	.06	.41	.63	.76	.85	.91	.96							
	29	8:50 p.m.	D.N.p.m.	0.90	9:11 p.m.	9:38 p.m.	.05	.16	.37	.55	.68	.75	.79								
Columbia, S. C.	18	1:45 p.m.	3:15 p.m.	0.80	1:51 p.m.	2:10 p.m.	.01	.24	.50	.65	.74										
Columbus, Ohio	7	3:13 p.m.	4:25 p.m.	1.02	3:23 p.m.	3:43 p.m.	.39	.68	.94	1.00											
	13	3:40 p.m.	6:30 p.m.	0.91	3:48 p.m.	4:10 p.m.	.11	.40	.53	.74	.81										
Concord, N. H.	17			0.38														.27			
Concordia, Kans.	17	8:07 a.m.	11:03 a.m.	4.02	9:26 a.m.	10:33 a.m.	.34	†	†	†	†	†	†	†	3.28	3.28	3.28	3.52	3.63		
	19	5:19 a.m.	7:09 a.m.	2.05	5:21 a.m.	6:37 a.m.	.01	.42	.69	.85	1.05	1.17	1.37	1.50	1.59	1.66	1.70	1.74	2.03		
	30	3:38 p.m.	4:13 p.m.	0.86	3:40 p.m.	4:06 p.m.	.01	.13	.28	.62	.76	.83	.85								
Corpus Christi, Tex.	4			T.														T.			
Davenport, Iowa	12	9:28 p.m.	12:20 p.m.	0.51	9:31 p.m.	9:55 p.m.	.01	.09	.22	.31	.44	.49									
Dayton, Ohio	26	4:27 p.m.	5:50 p.m.	0.80	4:42 p.m.	4:59 p.m.	.04	.09	.35	.69	.72										
Del Rio, Tex.	5			0.53														.39			
Denver, Colo.	23-24			0.36														.22			
Des Moines, Iowa	4	3:50 a.m.	6:10 a.m.	0.56	5:47 a.m.	6:00 a.m.	.12	.30	.38	.43											
Detroit, Mich.	16-17			0.89														.46			
Devils Lake, N. Dak.	20	5:29 p.m.	6:40 p.m.	0.55	6:00 p.m.	6:15 p.m.	.06	.19	.35	.41											
Dodge City, Kans.	4	8:57 a.m.	9:15 a.m.	0.47	8:59 a.m.	9:07 a.m.	T.	.28	.47												
Dubuque, Iowa	12	6:40 p.m.	9:20 p.m.	1.05	7:36 p.m.	8:17 p.m.	.02	.07	.16	.26	.48	.69	.84	.90	.97	.99					
Duluth, Minn.	28	3:37 p.m.	4:33 p.m.	0.48	3:42 p.m.	3:47 p.m.	.01	.39													
Durango, Colo.																					
Eastport, Me.	17			0.71														.52			
Elkins, W. Va.	21	8:03 p.m.	9:50 p.m.	0.42	9:20 p.m.	9:36 p.m.	.04	.10	.18	.36	.38										
El Paso, Tex.	23			T.														T.			
Erie, Pa.	21			0.68														.42			
Escanaba, Mich.	6			0.65														.39			
Eureka, Cal.	15			0.03														.02			
Evansville, Ind.	6	8:01 p.m.	9:00 p.m.	0.56	8:11 p.m.	8:27 p.m.	.01	.33	.43	.50	.53										
	21	12:05 a.m.	6:30 a.m.	1.50	12:46 a.m.	1:10 a.m.	.01	.37	.69	.86	.94	1.00									
Flagstaff, Ariz.	4			0.31														*			
Fort Smith, Ark.	22	11:48 a.m.	1:04 p.m.	0.62	11:52 a.m.	12:11 p.m.	.06	.16	.39	.52	.56										
	27	8:43 a.m.	1:50 p.m.	1.44	9:01 a.m.	9:44 a.m.	.02	.07	.13	.35	.62	.73	.79	.82	.87	.93					
Fort Wayne, Ind.	25	4:46 p.m.	5:55 p.m.	0.54	5:00 p.m.	5:17 p.m.	.04	.15	.31	.39	.43										
Fort Worth, Tex.	5	6:51 p.m.	9:15 p.m.	0.91	7:58 p.m.	8:36 p.m.	.07	.18	.25	.33	.43	.47	.59	.73	.77						
	5-6	11:08 p.m.	3:15 p.m.	1.21	12:45 a.m.	1:19 a.m.	.21	.12	.21	.30	.53	.76	.86	.91							
	14	1:49 p.m.	3:09 p.m.	0.70	2:07 p.m.	2:38 p.m.	.01	.07	.22	.37	.48	.56	.64	.68							
	15	12:38 a.m.	4:10 a.m.	0.74	1:24 a.m.	1:12 a.m.	.12	.12	.42	.56	.62										
	25	12:19 p.m.	3:10 p.m.	2.82	12:57 p.m.	2:30 p.m.	.04	.11	.21	.33	.35	.37	.50	.59	.86	1.16	1.32	1.83	2.57	2.77	
Fresno, Cal.	‡																				
Galveston, Tex.	15			0.08														.08			
Grand Haven, Mich.	18	1:48 p.m.	3:10 p.m.	0.62	2:17 p.m.	2:32 p.m.	.07	.06	.30	.50											
Grand Junction, Colo.	4-6			0.67														*			
Grand Rapids, Mich.	12-13			0.68														.25			
Green Bay, Wis.	18			0.72														.20			
Hannibal, Mo.	7	D.N.a.m.	D.N.a.m.	0.81	1:31 a.m.	1:15 a.m.	.04	.40	.63	.71											
	10-11	8:01 p.m.	D.N.a.m.	1.97	8:10 p.m.	8:58 p.m.	.04	.13	.35	.48	.54	.69	.77	1.01	1.30	1.40	1.46				
	20	6:26 p.m.	9:20 p.m.	1.45	7:53 p.m.	8:35 p.m.	.08	.13	.29	.55	.74	.91	.99	1.07	1.17	1.23					
Harrisburg, Pa.	2-3			1.47														*			
Hartford, Conn.	15			0.41														.27			
Hatteras, N. C.	1-2	7:31 p.m.	10:30 a.m.	3.04	6:48 a.m.	7:56 a.m.	1.67	.05	.12	.19	.28	.37	.43	.49	.57	.63	.70	.81	1.01		
Havre, Mont.	2-3			0.85														*			
Helena, Mont.	10-12			2.49														.22			
Houghton, Mich.	5-6			1.98														*			
Houston, Tex.	15			0.33														.33			
Huron, S. Dak.	5	D.N.a.m.	7:05 a.m.	0.94	5:26 a.m.	6:03 a.m.	.08	.23	.35	.48	.57	.62	.67	.73	.78						
	23	6:22 p.m.	7:10 p.m.	0.60	6:27 p.m.	6:49 p.m.	.01	.16	.40	.43	.55	.59									
Independence, Cal.	‡																				
Indianapolis, Ind.	15	12:28 p.m.	2:12 p.m.	0.58	12:38 p.m.	12:48 p.m.	.02	.22	.44												
Iola, Kans.	10-11	10:55 p.m.	9:15 a.m.	2.34	5:32 a.m.	6:02 a.m.	.53	.15	.38	.98	1.20	1.28	1.37								
	30	5:02 p.m.	7:35 p.m.	1.40	5:42 p.m.	6:03 p.m.	.11	.20	.46	.58	.70										
Jacksonville, Fla.	25			0.87														.53			
Kalispell, Mont.	25-27			1.08														.30			
Kansas City, Mo.	10-11	6:50 p.m.	D.N.a.m.	1.43	7:19 p.m.	7:45 p.m.	.03	.23	.39	.55	.81	1.06	1.11								
	29	4:13 p.m.	8:00 p.m.	1.22	6:30 p.m.	6:50 p.m.	.26	.21	.33	.62	.79										

* Self-register not working. † Record imperfect. ‡ No precipitation during the month.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.30 in 1 hour, during June, 1915, at all stations furnished with self-registering gages*—Continued.

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive rate began.	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Keokuk, Iowa	10	3:30 p. m.	8:45 p. m.	3.77	4:10 p. m.	5:10 p. m.	0.07	0.08	0.33	0.51	†	†	†	†	1.55	1.62	1.75	2.09			
					7:02 p. m.	7:40 p. m.	2.51	.09	.23	.36	0.58	0.66	0.78	1.01	1.10						
	19	3:10 p. m.	6:05 p. m.	0.83	3:54 p. m.	4:32 p. m.	.03	.09	.16	.19	.29	.35	.52	.63	.68						
Key West, Fla	20	8:45 a. m.	11:40 a. m.	0.77	9:40 a. m.	10:00 a. m.	.01	.16	.35	.53	.68										
Knoxville, Tenn	30	D. N. a. m.	6:00 a. m.	1.39	2:13 a. m.	3:57 a. m.	.01	.13	.21	.26	.29	.37	.46	.52	.54	.55	.57	.62	.78	1.24	1.37
La Crosse, Wis	28	4:25 p. m.	8:00 p. m.	1.12	4:47 p. m.	5:08 p. m.	.03	.12	.46	.59	.65	.68									
Lander, Wyo	1–2			2.11														.25			
Lansing, Mich	18	1:38 p. m.	3:10 p. m.	1.16	2:18 p. m.	2:42 p. m.	.02	.18	.31	.63	1.01	1.10									
Lewiston, Idaho	11			0.83														.35			
Lexington, Ky	7			0.42														.36			
Lincoln, Nebr	30	1:53 p. m.	5:10 p. m.	0.66	2:34 p. m.	2:51 p. m.	.04	.23	.36	.42	.47										
Little Rock, Ark	14	11:31 a. m.	12:45 p. m.	1.15	11:31 a. m.	12:04 p. m.	.00	.15	.28	.67	.81	.88	.99	1.01							
Los Angeles, Cal	30			T.														T.			
Louisville, Ky	1	1:24 p. m.	6:10 p. m.	0.61	1:24 p. m.	1:41 p. m.	.00	.06	.21	.40	.48										
Ludington, Mich	18			0.95														.51			
Lynchburg, Va	1–3			3.20														.41			
Macon, Ga	1–2			0.88														.51			
Madison, Wis	12			0.47														.43			
Marquette, Mich	28	2:11 p. m.	7:31 p. m.	1.38	3:57 p. m.	4:38 p. m.	.28	.06	.09	.18	.41	.63	.78	.88	.96	.98					
Memphis, Tenn	30	7:38 p. m.	D. N. p. m.	0.81	8:48 p. m.	9:10 p. m.	.16	.15	.32	.43	.53	.59									
Meridian, Miss	13–14	10:40 p. m.	D. N. a. m.	1.04	11:32 p. m.	12:18 a. m.	.06	.06	.21	.22	.38	.20	.31	.57	.86	.96					
	26	1:15 p. m.	4:30 p. m.	0.98	1:18 p. m.	1:43 p. m.	.01	.12	.16	.49	.66	.74									
	27	1:20 p. m.	3:20 p. m.	1.23	1:32 p. m.	1:59 p. m.	.01	.12	.16	.30	.70	1.06	1.16								
	28	7:35 p. m.	9:00 p. m.	0.56	7:44 p. m.	7:59 p. m.	.01	.31	.45	.51											
Miami, Fla	1	2:25 p. m.	5:35 p. m.	1.64	3:36 p. m.	4:53 p. m.	.21	.13	.23	.25	.37	.51	.53	.55	.69	.79	.88	1.08	1.36		
	2	D. N. a. m.	1:15 p. m.	2.25	6:01 a. m.	6:55 a. m.	.12	.07	.19	.29	.37	.38	.42	.52	.65	.78	.83	.90			
	14	D. N. a. m.	D. N. a. m.	1.01	4:28 a. m.	4:44 a. m.	.14	.18	.50	.71	.73										
	17	D. N. a. m.	8:05 a. m.	2.77	5:16 a. m.	5:55 a. m.	1.53	.15	.32	.48	.66	.84	.92	.97	1.62						
Milwaukee, Wis	12–13	8:20 p. m.	D. N. a. m.	0.80	8:52 p. m.	9:22 p. m.	.01	.15	.23	.31	.43	.47	.54								
Minneapolis, Minn	5	7:30 p. m.	D. N. p. m.	0.95	9:46 p. m.	9:55 p. m.	.24	.36	.64												
	27	D. N. a. m.	D. N. a. m.	1.03	1:58 a. m.	2:36 a. m.	.02	.12	.35	.43	.46	.61	.68	.75	.78						
Mobile, Ala	25	12:35 p. m.	3:35 p. m.	1.54	12:38 p. m.	1:09 p. m.	.01	.10	.53	.85	1.13	1.28	1.37	1.42							
	27	12:20 p. m.	1:50 p. m.	0.53	12:22 p. m.	12:31 p. m.	.01	.24	.45	.50											
	28–29	6:35 p. m.	D. N. a. m.	2.61	8:08 p. m.	9:04 p. m.	.03	.25	.56	1.17	1.58	1.90	2.00	2.06	2.08	2.13	2.20	2.31			
	29	2:32 p. m.	7:20 p. m.	0.79	2:41 p. m.	2:52 p. m.	.01	.27	.45	.50											
Modena, Utah	3–4			0.83														.19			
Montgomery, Ala	12	12:48 p. m.	1:45 p. m.	0.43	1:08 p. m.	1:21 p. m.	.01	.17	.27	.39											
Moorhead, Minn	26	5:40 p. m.	10:05 p. m.	2.62	6:00 p. m.	6:23 p. m.	.07	.25	.71	1.11	1.62	1.90									
					7:56 p. m.	8:09 p. m.	2.06	.17	.37	.45											
Mount Tamalpais, Cal	‡																				
Nantucket, Mass	17	1:59 p. m.	3:55 p. m.	0.64	2:06 p. m.	2:31 p. m.	.01	.14	.25	.40	.43	.52	.53								
Nashville, Tenn	27			0.54														.43			
New Haven, Conn	[1] 30–1	10:05 p. m.	8:45 a. m.	2.14	10:34 p. m.	11:17 p. m.	.01	.06	.17	.23	.26	.34	.52	.69	.84	.92					
New Orleans, La	13	9:05 a. m.	10:05 a. m.	1.18	9:09 a. m.	9:39 a. m.	.01	.20	.74	.89	.99	1.08	1.13								
		11:45 a. m.	2:40 p. m.	0.84	12:30 p. m.	12:58 p. m.	.01	.22	.47	.57	.61	.73	.76								
	14	11:10 a. m.	1:55 p. m.	1.31	11:40 a. m.	12:04 p. m.	.04	.16	.32	.67	1.08	1.24									
	14–15	10:15 p. m.	D. N. a. m.	0.85	12:16 a. m.	12:51 a. m.	.01	.19	.28	.33	.41	.51	.61	.70							
	30	3:40 p. m.	5:05 p. m.	0.72	3:45 p. m.	4:09 p. m.	.01	.10	.30	.41	.54	.60									
New York, N. Y	15	5:26 p. m.	10:12 p. m.	1.26	5:26 p. m.	6:06 p. m.	.00	.10	.21	.27	.33	.40	.47	.59	.69						
	[1] 30–1	8:45 p. m.	4:00 a. m.	1.63	10:28 p. m.	11:18 p. m.	.41	.08	.17	.33	.48	.63	.72	.81	.90	.99	1.06				
Norfolk, Va	1–6			5.77														.65			
Northfield, Vt	17	5:50 a. m.	8:20 a. m.	0.89	6:16 a. m.	6:44 a. m.	.01	.05	13	.36	.59	.70	.76								
North Head, Wash	9–10			0.40														.26			
North Platte, Nebr	26	10:05 p. m.	11:10 p. m.	0.49	10:19 p. m.	10:29 p. m.	.02	.35	.43												
Oklahoma, Okla	16	7:18 a. m.	10:00 a. m.	0.75	7:40 a. m.	8:05 a. m.	.03	.21	.29	.35	.43	.50									
	24	2:20 a. m.	6:32 a. m.	1.41	2:37 a. m.	3:17 a. m.	.01	.05	.15	.19	.23	.34	.46	.57	.62						
	25	12:50 p. m.	1:35 p. m.	0.64	1:01 p. m.	1:12 p. m.	.01	.18	.56	.61											
	29	1:21 a. m.	D. N. a. m.	1.13	1:53 a. m.	2:12 a. m.	.03	.11	.44	.70	.76										
Omaha, Nebr	4	2:00 a. m.	6:10 a. m.	0.66	4:26 a. m.	5:00 a. m.	.04	.13	.16	.17	.31	.43	.54	.60							
Oswego, N. Y	19	11:50 a. m.	12:11 p. m.	0.42	11:50 a. m.	12:05 p. m.	.00	.06	.22	.41											
Palestine, Tex	15	1:30 a. m.	7:10 a. m.	1.50	1:41 a. m.	2:31 a. m.	.02	.07	.17	.29	.42	.56	.67	.86	1.03	1.19	1.29				
Parkersburg, W. Va	14	6:53 p. m.	8:51 p. m.	0.78	6:56 p. m.	7:21 p. m.	.01	.15	.30	.46	.54	.59									
Pensacola, Fla	13	4:55 a. m.	8:55 a. m.	1.23	5:33 a. m.	6:27 a. m.	.02	.22	.31	.44	.47	.49	.50	.50	.51	.63	.81	.88			
	25	4:30 a. m.	9:40 a. m.	1.11	4:45 a. m.	5:04 a. m.	.01	.21	.38	.49	.56										
	28	12:50 p. m.	4:10 p. m.	1.27	2:30 p. m.	3:46 p. m.	.03	.13	.31	.43	.54	.61	.55	.66	.66	.68	.76	.98	1.24		
Peoria, Ill	18			0.51														.29			
Philadelphia, Pa	13	4:40 p. m.	6:45 p. m.	0.90	4:50 p. m.	5:10 p. m.	.01	.24	.49	.60	.75										
Phoenix, Ariz	3–4			0.48														.37			
Pierre, S. Dak	12	12:05 a. m.	5:10 a. m.	1.28	3:43 a. m.	4:14 a. m.	.45	.10	.26	.38	46	.54	.60	.64							
Pittsburg, Pa	7	7:35 p. m.	9:10 p. m.	0.47	8:07 p. m.	8:17 p. m.	.02	.24	.39												
Pocatello, Idaho	5			0.23														.12			
Point Reyes Light, Cal	‡																				
Port Huron, Mich	7			0.66														.40			
Portland, Me	20			0.74														.30			
Portland, Oreg	25			0.39														.23			
Providence, R. I	26			0.38														.33			
Pueblo, Colo	1			0.48														.37			
Raleigh, N. C	1–2			1.77														.33			
Rapid City, S. Dak	18–19	2:36 p. m.	2:10 a. m.	1.84	4:12 p. m.	4:46 p. m.	.07	.15	.30	.42	.62	.70	.75	.80							
Reading, Pa	13	2:30 p. m.	5:06 p. m.	0.74	2:45 p. m.	3:08 p. m.	.04	.08	.18	.34	.56	.61									
Red Bluff, Cal	‡																				
Reno, Nev	‡																				
Richmond, Va	1–3			2.42														*			
Rochester, N. Y	15	10:54 a. m.	1:35 p. m.	0.56	11:20 a. m.	11:40 a. m.	.03	.11	.29	.36	.48										
Roseburg, Oreg	10–11			0.58														.24			
Roswell, N. Mex	9			0.06														.06			
Sacramento, Cal	‡																				
Saginaw, Mich	18	5:58 p. m.	6:40 p. m.	0.88	6:00 p. m.	6:12 p. m.	.01	.54	.70	.75											
St. Joseph, Mo	12	2:10 a. m.	D. N. a. m.	0.52	3:16 a. m.	3:32 a. m.	.01	.18	.36	.47	.50										
	17	7:20 p. m.	9:30 p. m.	1.69	8:18 p. m.	8:43 p. m.	.20	.50	.83	1.01	1.21	1.43									
	29	3:04 p. m.	7:28 p. m.	2.06	4:40 p. m.	5:15 p. m.	.21	.11	.25	.51	.77	1.03	1.29	1.46							
St. Louis, Mo	20–21	9:42 p. m.	D. N. a. m.	1.63	10:23 p. m.	11:26 p. m.	.02	.06	.16	.43	.69	.76	.78	.82	.90	1.09	1.26	1.53	1.60		
	27–28	5:40 p. m.	11:45 a. m.	4.27	9:43 p. m.	10:03 p. m.	.90	.30	.51	.76	.88										
St. Paul, Minn	27			0.77														.33			
Salt Lake City, Utah	[2] 31–2			1.29														.64			
San Antonio, Tex	5			0.03														.02			
San Diego, Cal	2			T.														T.			
Sand Key, Fla	19	1:08 p. m.	2:00 p. m.	0.83	1:11 p. m.	1:26 p. m.	.02	.19	.51	.72											
	20	2:13 p. m.	3:07 p. m.	0.78	2:20 p. m.	2:38 p. m.	.04	.18	.42	.60	.65										

* Self-register not working. ‡ No precipitation occurred during month. † Record imperfect. [1] July 1. [2] May 31.

TABLE II.—*Accumulated amount of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.30 in 1 hour, during June, 1915, at all stations furnished with self-registering gages*—Continued.

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive rate began.	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Sandusky, Ohio	13	3:10 p.m.	5:45 p.m.	1.02	3:13 p.m.	3:33 p.m.	0.01	0.25	0.50	0.70	0.84										
San Francisco, Cal	‡																				
San Jose, Cal	‡																				
San Luis Obispo, Cal	18			0.01														0.01			
Santa Fe, N. Mex	2			0.06														.05			
Sault Ste. Marie, Mich	18–19			1.17														.36			
Savannah, Ga	17			0.90														.59			
Scranton, Pa	15	2:14 p.m.	3:58 p.m.	0.75	2:35 p.m.	2:47 p.m.	.06	.18	.38	.46											
	19	12:28 p.m.	1:52 p.m.	0.68	1:02 p.m.	1:18 p.m.	.25	.10	.21	.40	.41										
Seattle, Wash	10			0.24														.09			
Sheridan, Wyo	11–12			1.08														*			
Shreveport, La	26	4:50 p.m.	7:10 p.m.	0.83	5:15 p.m.	5:39 p.m.	.07	.26	.65	.73											
Sioux City, Iowa	5	3:45 p.m.	4:30 p.m.	0.88	4:06 p.m.	4:25 p.m.	.01	.34	.70	.81	.87										
Southeast Farallone, Cal																					
Spokane, Wash	10–11			0.63														.17			
Springfield, Ill	10–11			0.80														*			
Springfield, Mo	30	7:55 p.m.	11:10 p.m.	0.96	9:15 p.m.	9:37 p.m.	.08	.28	.55	.68	.74	0.80									
Syracuse, N. Y	15	1:26 p.m.	2:25 p.m.	0.42	1:28 p.m.	1:38 p.m.	T.	.25	.36												
Tacoma, Wash	9–10			0.46														.19			
Tampa, Fla	8	1:39 p.m.	3:20 p.m.	0.92	1:47 p.m.	2:27 p.m.	.03	.10	.20	.25	.31	.44	0.57	0.68	0.77						
	11	2:55 p.m.	4:30 p.m.	0.68	3:29 p.m.	3:58 p.m.	.08	.11	.13	.18	.27	.46	.56								
Tatoosh Island, Wash	24			0.13														.09			
Taylor, Tex	15			0.23														.11			
Terre Haute, Ind	29			0.73														.57			
Thomasville, Ga	1	2:15 p.m.	4:40 p.m.	1.53	2:24 p.m.	3:15 p.m.	.01	.32	.45	.52	.59	.73	.87	1.04	1.10	1.17	1.22	1.29			
	28	10:43 a.m.	1:25 p.m.	0.66	11:08 a.m.	11:35 a.m.	.01	.12	.20	.31	.40	.49	.51								
	29	11:15 a.m.	12:47 p.m.	1.10	11:36 a.m.	11:53 a.m.	.05	.19	.31	.63	.72										
Toledo, Ohio	29			0.53														.31			
Tonopah, Nev	4			T.														T.			
Topeka, Kans	10–11	5:56 p.m.	7:35 a.m.	3.82	6:52 p.m.	8:14 p.m.	.21	.22	.43	.56	.64	.96	1.12	1.27	1.39						
					9:24 p.m.	9:39 p.m.	2.67	.07	.28	.65											
	17	5:25 p.m.	7:30 p.m.	1.12	6:22 p.m.	6:53 p.m.	.25	.09	.17	.42	.55	.57	.75	.78							
	19	7:36 a.m.	8:50 a.m.	0.87	7:58 p.m.	8:33 a.m.	.04	.10	.20	.29	.36	.44	.64	.80							
Valentine, Nebr	12	12:15 a.m.	2:00 a.m.	0.50	2:24 a.m.	2:39 a.m.	.10	.08	.23	.38											
Vicksburg, Miss	13	7:34 p.m.	D.N.p.m.	2.61	8:29 p.m.	9:20 p.m.	.09	.17	.42	.66	.92	1.24	1.50	1.71	2.03	2.23	2.53	2.41			
	14	6:20 p.m.	11:00 p.m.	1.07	6:59 p.m.	7:19 p.m.	.15	.17	.34	.45	.57										
Walla Walla, Wash	11			0.29														.16			
Washington, D. C	13	2:33 p.m.	3:50 p.m.	0.70	3:20 p.m.	3:42 p.m.	.03	.17	.35	.47	.60	.65									
	15	3:30 p.m.	4:32 p.m.	1.54	3:57 p.m.	4:27 p.m.	.01	.34	.38	.39	.54	1.00	1.29	1.36	1.39	1.40	1.51				
Wichita, Kans	6–7	5:30 p.m.	D.N.a.m.	1.12	8:12 p.m.	8:47 p.m.	.04	.07	.12	.18	.27	.47	.58	.63							
	23–24	9:30 p.m.	D.N.a.m.	0.89	11:07 p.m.	11:35 p.m.	.08	.10	.21	.33	.47	.60	.65								
Williston, N. Dak	2–3			0.71														.21			
Wilmington, N. C	8–9	10:35 p.m.	D.N.a.m.	1.08	12:09 a.m.	2:34 a.m.	.33	.19	.40	.54	.64	.70									
Winnemucca, Nev	11			0.03														.02			
Wytheville, Va	14	2:18 p.m.	4:40 p.m.	0.78	2:22 p.m.	2:32 p.m.	.01	.16	.32												
Yankton, S. Dak	26–27	11:15 p.m.	2:00 a.m.	0.71	11:19 p.m.	11:45 p.m.	.01	.24	.42	.46	.53	.58	.61								
Yellowstone Park, Wyo	17			0.47														.17			

* Self-register not working. ‡ No preciptation occurred during month.

TABLE III.—*Data furnished by the Canadian Meteorological Service, June, 1915.*

Stations.	Pressure. Station, reduced to mean of 24 hours.	Pressure. Sea-level reduced to mean of 24 hours.	Pressure. Departure from normal.	Temperature. Mean max.+mean min.÷2.	Temperature. Departure from normal.	Temperature. Mean maximum.	Temperature. Mean minimum.	Temperature. Highest.	Temperature. Lowest.	Precipitation. Total.	Precipitation. Departure from normal.	Precipitation. Total snowfall.
	Inches.	*Inches.*	*Inches.*	*°F.*	*°F.*	*°F.*	*°F.*	*°F.*	*°F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F	29.87	30.01	+0.10	49.0	−2.6	55.9	42.1	87	34	2.55	−0.05	
Sydney, C. B. I	29.99	30.03	+ .08	52.6	−2.8	62.0	43.3	74	32	3.98	+0.75	
Halifax, N. S	29.92	30.02	+ .07	55.7	−2.0	65.0	46.4	79	32	4.58	+0.82	
Yarmouth, N. S	29.96	30.03	+ .08	55.8	+0.8	64.4	47.1	75	35	1.60	−1.16	
Charlottetown, P. E. I	29.98	30.02	+ .10	55.0	−2.4	63.0	46.9	75	37	2.16	−0.51	
Chatham, N. B	30.01	30.03	+ .14	58.9	−1.1	69.5	48.3	86	35	5.39	+1.93	
Father Point, Que	29.97	29.99	+ .12	53.7	+0.7	62.4	45.0	83	34	2.08	−0.90	
Quebec, Que	29.67	29.99	+ .07	62.4	+1.2	73.4	51.5	85	43	2.36	−1.29	
Montreal, Que	29.78	29.98	+ .04	65.3	+0.4	74.7	56.0	84	48	2.59	−0.94	
Stonecliffe, Ont	29.39	29.99	+ .05	60.9	−0.7	74.6	47.2	90	37	2.01	−1.12	
Ottawa, Ont	29.73	30.05	+ .11	63.6	−1.7	74.3	52.8	85	47	3.53	+0.61	
Kingston, Ont	29.70	30.01	+ .04	62.0	−1.4	71.2	52.7	81	44	2.72	+0.29	
Toronto, Ont	29.60	29.97	.00	62.2	−1.2	73.1	51.3	82	43	1.33	−1.47	
White River, Ont	28.66	29.97	+ .03	51.7	−7.0	66.9	36.5	84	24	2.76	+0.54	
Port Stanley, Ont	29.37	30.01	+ .04	60.6	−3.2	70.5	50.6	80	27	4.35	+1.02	
Southampton, Ont	29.29			57.8	−2.6	67.7	47.8	86	35	3.84	+1.49	
Parry Sound, Ont	29.31	29.99	+ .03	60.3	−0.9	73.3	47.8	87	37	2.85	+0.33	
Port Arthur, Ont	29.27	29.98	+ .04	53.6	−2.8	63.5	43.8	74	32	3.60	+1.96	
Winnipeg, Man	29.10	29.92	+ .03	57.0	−5.2	68.5	45.4	80	36	2.75	−0.73	T.
Minnedosa, Man	28.12	29.92	+ .03	54.3	−5.3	65.8	42.8	84	30	5.86	+0.86	0.2
Qu'Appelle, Sask	27.65	29.88	+ .01	53.9	−6.0	65.0	42.7	78	28	2.66	−0.76	
Medicine Hat, Alberta	27.63	29.88	+ .03	60.0	−2.9	71.1	48.8	89	40	4.67	+1.51	
Swift Current, Sask	27.34	29.88	+ .01	55.8	−0.2	66.4	44.1	81	34	2.72	+0.05	
Calgary, Alberta	26.36	29.85	+ .01	54.1	−1.9	65.6	42.6	78	35	4.02	+1.57	
Banff, Alberta	25.40	29.96	+ .12	50.2	−1.5	62.2	38.1	76	31	6.09	+2.72	
Edmonton, Alberta	27.66	29.95	+ .09	54.2	−2.1	64.7	43.6	74	32	5.46	+2.63	
Prince Albert, Sask	28.32	29.87	.00	53.3	−5.5	63.5	44.4	77	29	2.88	+0.37	
Battleford, Sask	28.19	29.92	+ .06	57.1	−2.4	69.5	44.7	80	30	1.39	−1.92	
Kamloops, B. C	28.77	30.04	+ .17	63.3	−0.5	75.0	51.5	88	44	2.49	+1.07	
Victoria, B. C	29.87	30.12	+ .11	57.8	+1.5	65.1	50.5	82	48	0.63	−0.59	
Barkerville, B. C	25.68	29.95	+ .08	45.5	−1.2	61.1	37.9	72	22	5.27	+1.79	9.0
Hamilton, Bermuda	29.90	30.06	− .06	73.6	−1.4	79.3	67.8	84	65	10.98	+5.03	

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